# Staff Recommendations for State Water Board Ocean Protection Funds

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#### BACKGROUND

- Public concern about beach closure
- Current US EPA approved methods – next day results
- AB 639 develop Rapid Indicators
- SWRCB Clean Beach Initiative
   (CBI) Rapid Indicators a priority

# RAPID DIAGNOSTOC METHODS FOR MEASURING BATERIA INDICATORS

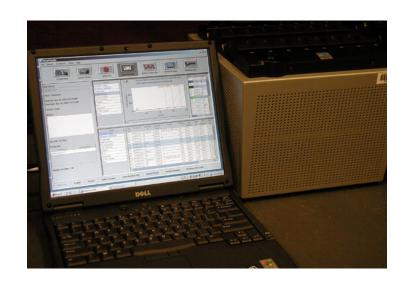
- State Board contracted with the Southern California Coastal Water Research Project (SCCWRP)
- •Collaboration with local, state, federal and private partners
- •Promising Technologies!

# Quantitative Polymerase Chain Reaction (Q PCR)





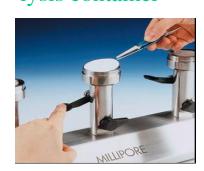


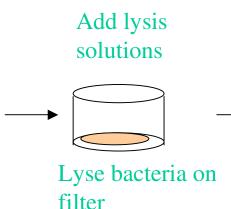


## Transcription Mediated Amplification (TMA) Assay

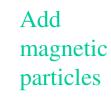
Filter sample (100 ml) Transfer filter to lysis container







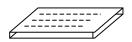








Add rRNA target and amp reagents 4 to 96 well plate



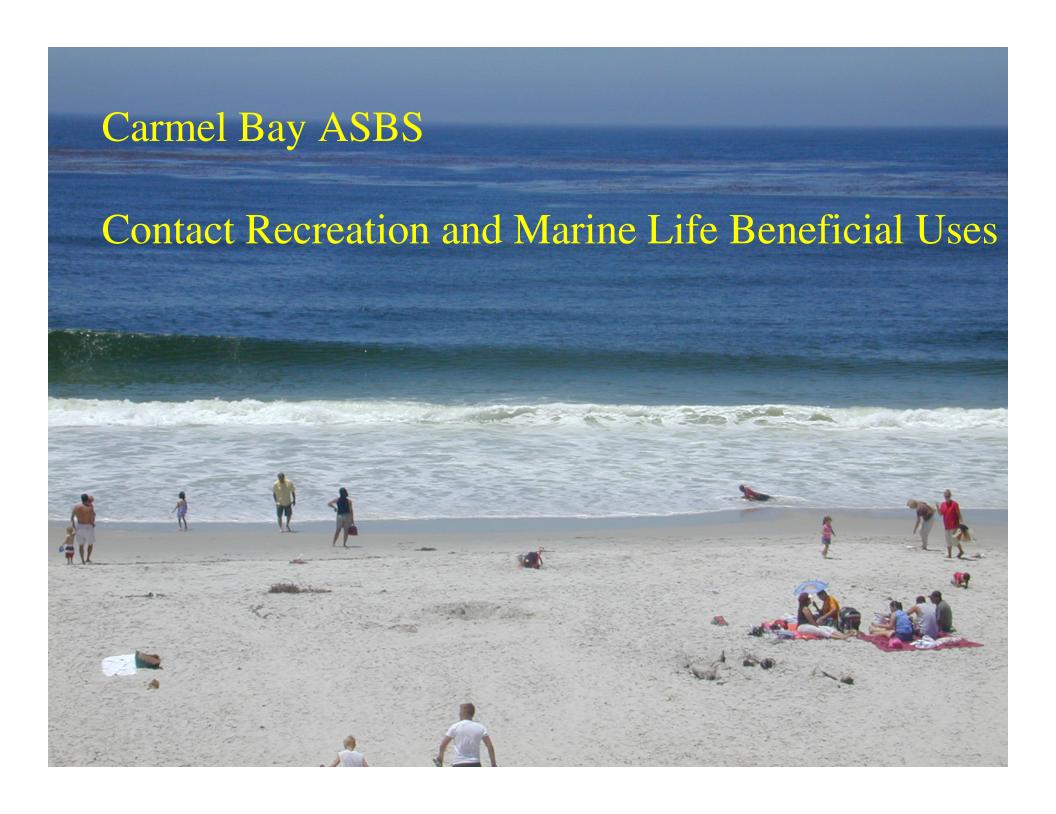


Magnetic separation

#### Dual Wavelength Fluorimetry

Uses a dual wavelength flourimeter to detect bacteria by radiometric measurement



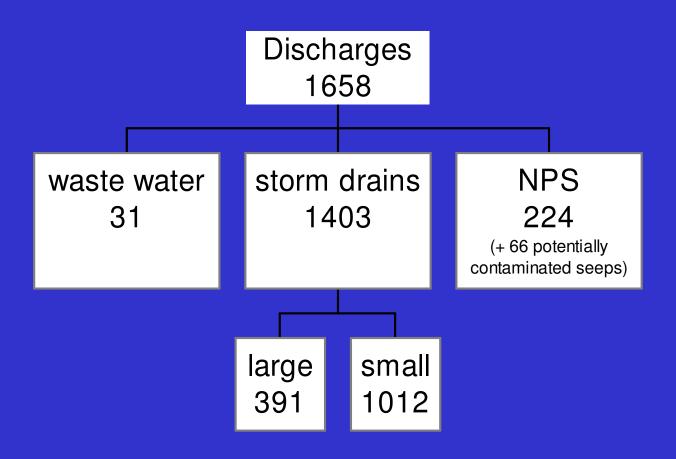




# Areas of Special Biological Significance (ASBS)

- 34, designated in the 1970s by the State Water Resources Control Board
- Regulated through the California Ocean Plan
- Ocean Plan: "Waste shall not be discharged to designated Areas of Special Biological Significance..."
- Public Resources Code: ASBS are a subset of State Water Quality Protection Areas

#### Statewide ASBS/SWQPA Discharges

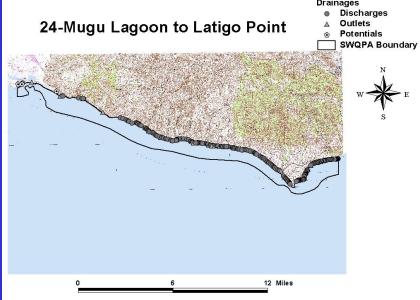




### Laguna Point to Latigo Point ASBS, in Malibu

Mystery drain...

Dry weather flows



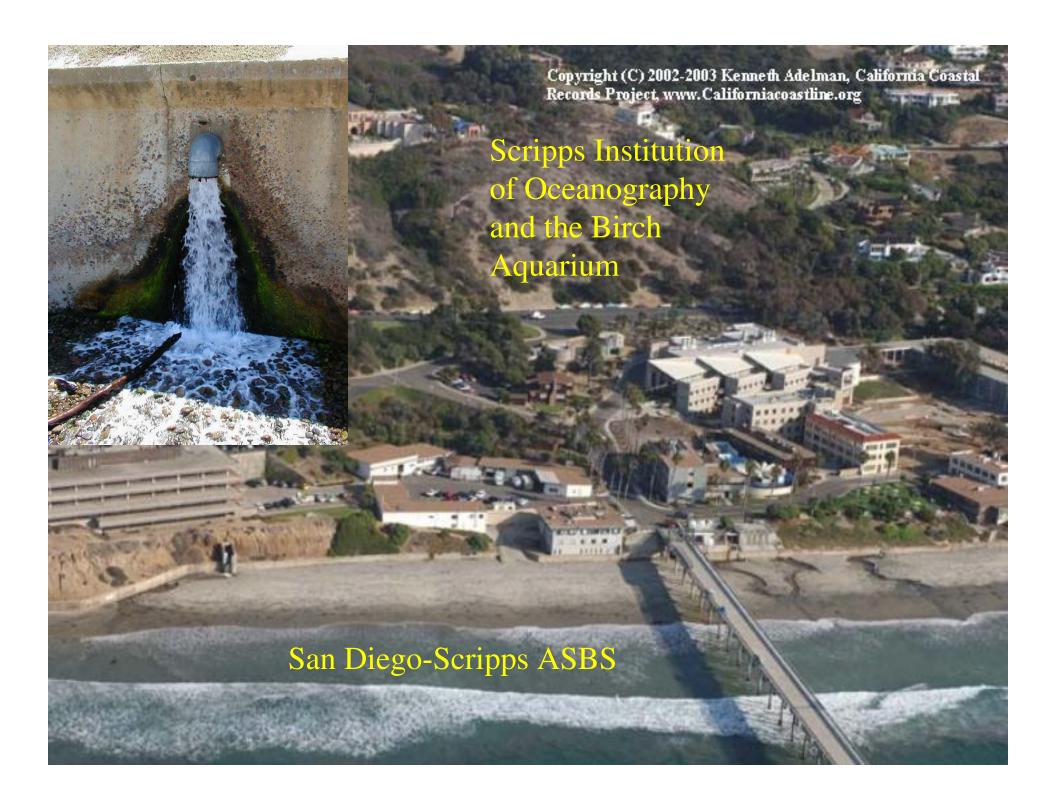
## McWay Falls Julia Pfeiffer Burns ASBS

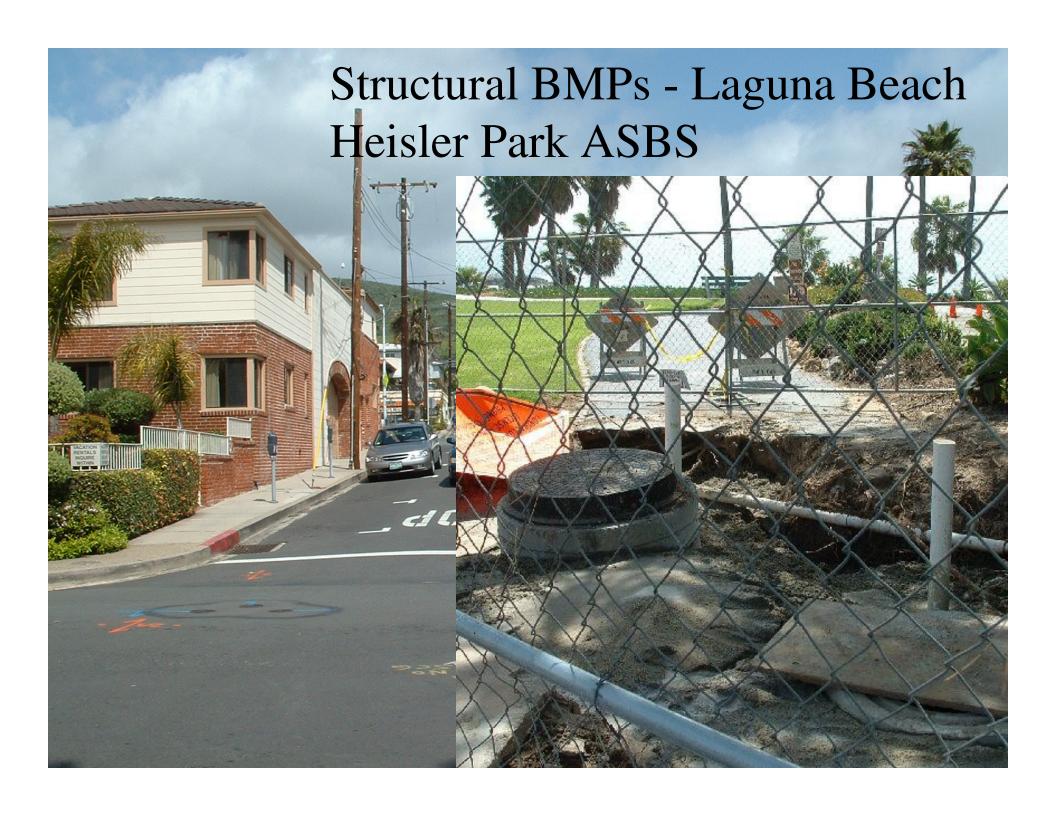
Before 1983, when road clearing operations dumped sediment into the ASBS

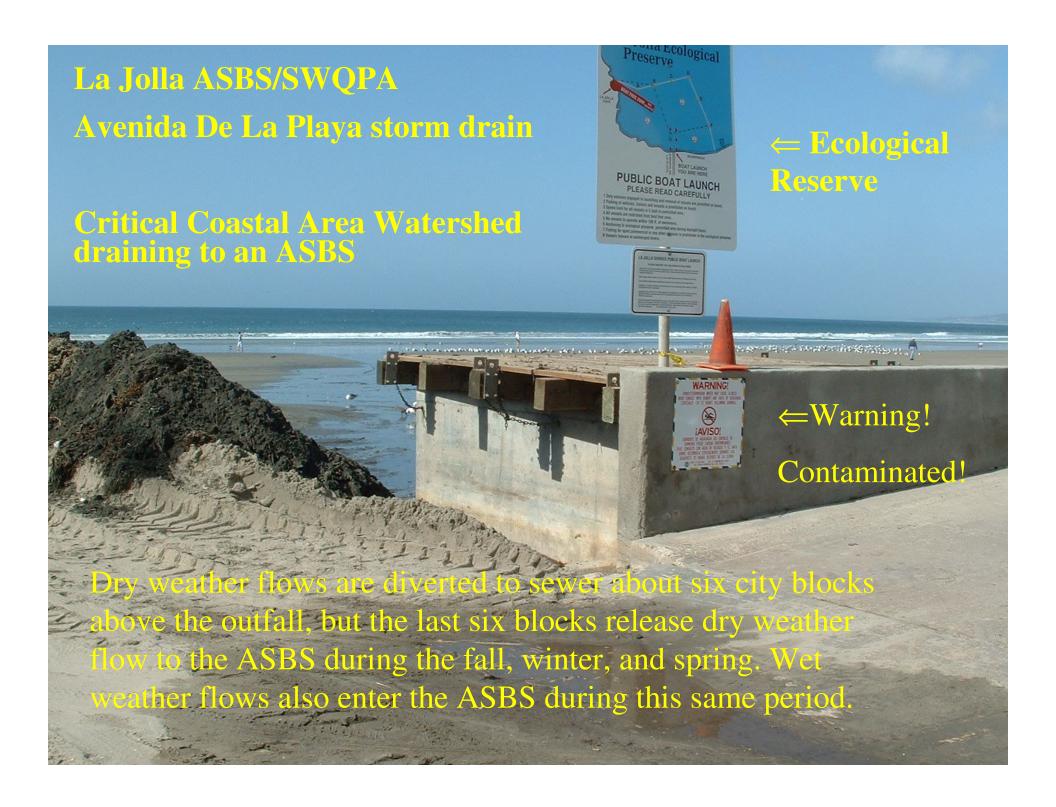












### State Water Board Timeline: Projected Dates, Consolidated Grants

Anticipate Adoption of Guidelines:

Solicit Concept Proposals:

Concept Proposals Due:

• Full Proposal Invitations:

• Full Proposals Due:

 Ocean Protection Projects to Ocean Protection Council:

 Recommended Project Lists (in batches) to State Water Board and California Bay-Delta Authority:

• Grant Agreements:

January 4, 2006

January 5, 2006

February 9, 2006

*March* 2006

May 2006

June 13, 2006

July-November 2006 August 2006-2007

Slide 18 added January 13, 2006